

# INTERNATIONAL SEARCH REPORT

PCT/GB2004/004986

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E21B4/04 E21B4/18 E21B43/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2001/052427 A1 (TRAINOR WILLIAM F ET AL) 20 December 2001 (2001-12-20) paragraphs '0002!', '0016!', '0054!', '0055!', '0120!; figures 1A,1B	1-10
A	US 2003/034177 A1 (CROSSLAND WILLIAM G ET AL) 20 February 2003 (2003-02-20) paragraphs '0211!', '0212!', '0249!', '0251!', '0273!', '0277!', '0289!', '0293!', '0334!', '0335!; figures 1,6,9,11,16	1-10

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

19 January 2005

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

'GB2004/004986

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2001052427 A1	20-12-2001	US 6607044 B1	19-08-2003
		US 6296066 B1	02-10-2001
		AU 777543 B2	21-10-2004
		AU 2263701 A	03-07-2001
		BR 0016525 A	24-09-2002
		CA 2394950 A1	28-06-2001
		CN 1413285 T	23-04-2003
		EP 1246993 A1	09-10-2002
		JP 2003518214 T	03-06-2003
		NO 20022944 A	20-08-2002
		WO 0146549 A1	28-06-2001
		US 2003094310 A1	22-05-2003
		US 6659200 B1	09-12-2003
		AU 743707 B2	31-01-2002
		AU 8952598 A	13-05-1999
		CA 2250483 A1	27-04-1999
		CN 1215789 A	05-05-1999
		EP 0911483 A2	28-04-1999
		NO 984973 A	28-04-1999
		US 2003075361 A1	24-04-2003
		US 2003230893 A1	18-12-2003
		US 6761574 B1	13-07-2004
		US 2002007970 A1	24-01-2002
US 2003034177 A1	20-02-2003	CA 2454865 A1	27-02-2003
		EP 1436482 A2	14-07-2004
		WO 03016671 A2	27-02-2003
		US 2004134662 A1	15-07-2004
		US 2004244982 A1	09-12-2004
		US 2004112646 A1	17-06-2004
		US 2004124015 A1	01-07-2004